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SO: Monthly Index of East European Accessions (EEAI) LC.Vol. 7, no. 4,
April 1958

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capitalist countries" by L.Rozovskiy. Reviewed by Gabor Papanek.
Stat szemle 40 no.7:778-780 JI '62.

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PAPANEK, Gabor

"Model for the interregional turnover of commercial goods
in France" by J.R. Boudeville. Reviewed by Gabor Papanek.
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SO: Monthly Index of East European Accession (EEAI) LC, Vol. 7, No. 5, May 1958

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DLC: G600.S6

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LYSENKO, T.D.; PAPANIN, I.D.; POZDNYAKOV, Ye.V.; VARUNTSYAN, I.S.;
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no. 3:453-454 My-Je '60. (MIRA 13:12)
(Manteifel', Petr Aleksandrovich, 1882-1960)

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"What is the meaning of the expression 'forest industry'?" p. 171. (Polana. Vol. 9, no. 7/8, July/Aug. 1953. Praha.)

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7710. PAPANOV, A. F. - Moy opyt rukov^{est}va kolkh^{oz}on((svoboda)
puchezhskogo rayona). Ivanovo, kn. izd., 1954. 44 s.s ill. 20 sm.
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SO: Knizhnaya Letopis', Vol. 7, 1955

DERGUNOV, A.A., inzh.; PAPANOV, A.V., inzh.

Use of operative a.c. in a hydroelectric power station. Elek.
sta. 35 no.11:c9-71 N 164. (MIRA 18:1)

L 09085-67

ACC NR: AP7002376

SOURCE CODE: UR/0104/66/000/007/0030/0033

AUTHOR: Potashnik, S. I. (Engineer); Kalmykov, I. Z. (Engineer); Stroganov, Ye. M. (Engineer); Kozhevnikov, N. N.; Tsizin, N. G. (Engineer); Papanov, A. V. (Engineer); Beschastnov, G. A. (Engineer); Balakirev, V. F. (Engineer)

ORG: none

TITLE: Increasing the power effectiveness of horizontal capsule hydroelectric units

SOURCE: Elektricheskiye stantsii, no. 7, 1966, 30-33

TOPIC TAGS: hydroelectric power plant, electric power production

ABSTRACT: At the Kiev Hydroelectric Station, which was the first low pressure hydroelectric station with horizontal capsule hydroelectric units in the country, the usage of these horizontal units allowed a reduction in cost of construction and installation operations in comparison with vertical units of 20-25%. This article presents an evaluation of the power qualities of the capsule hydroelectric units on the basis of results of usage and investigations performed, as well as some suggestions for increasing these qualities. The author concludes that the horizontal capsule unit can operate normally in the synchronous compensator mode with a power of 15 Mvar without removal of water from the reflex condensation chamber. The thermal state of the rotor windings allows operation with a power coefficient less than unity, which provides for distribution of the reactive power in peak hours and increases the static stability of the capsule hydrogenerators. The usage of capsule generators in the synchronous compensation mode is economically justified. Orig. art. has: 3 figures. [JPRS: 37,564]

SUB CODE: 10 / SUHM DATE: none

UDC: 62.224-131.2

Card 1/16

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Excavating Machinery

Lighter excavator. Za ekon. mat., No. 1, 1952.

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Valves

Shut-off valve for gasoline. Masl.-zhir,prom. 18, No. 2, 1953.

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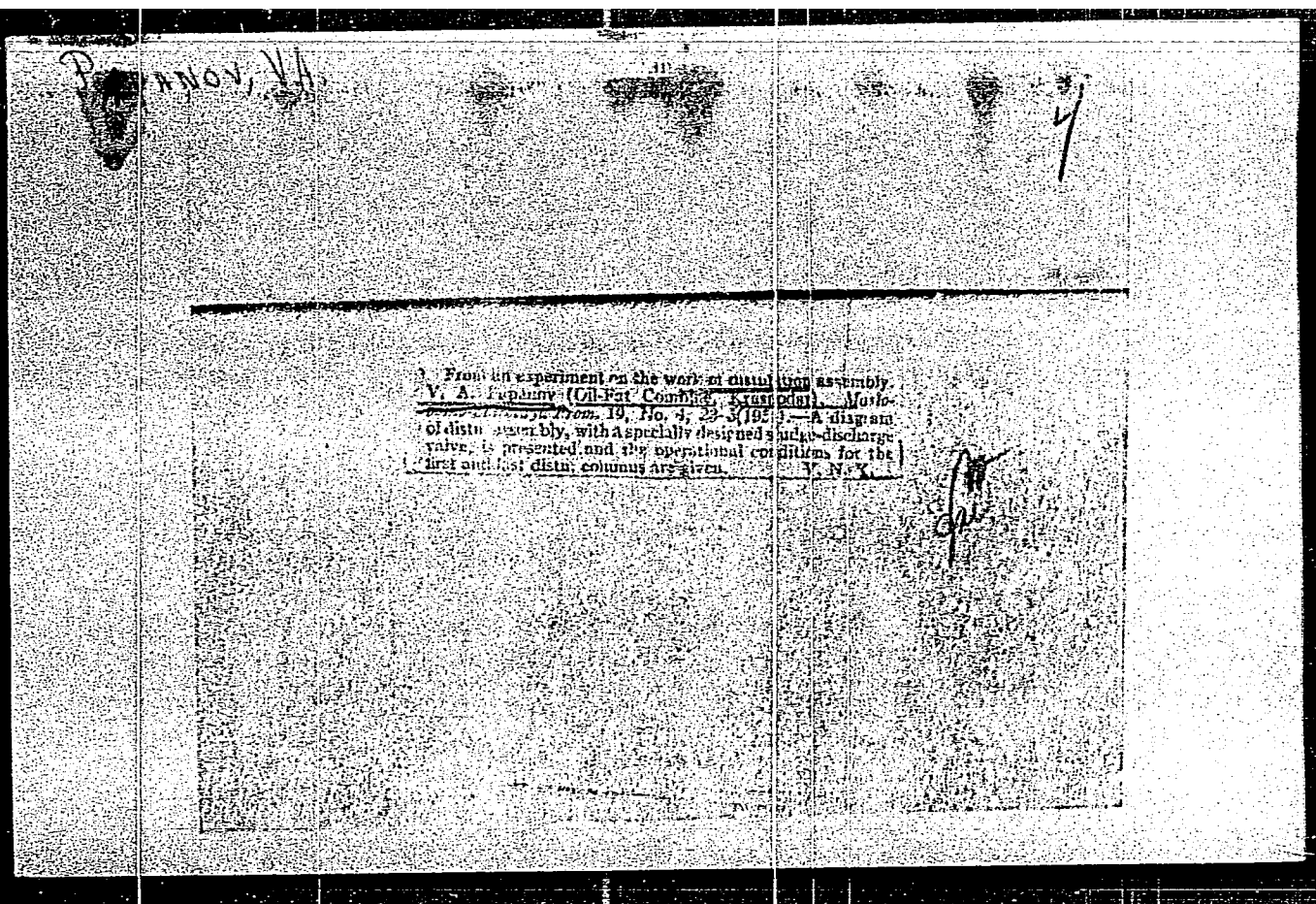
A closure valve for ligroine. Masloboino Zhirovaya Prom. '53, No.2,
22. (MLRA 6:3)
(CA 47 No.14:6712 '53)

1. Krasnodar Oil-Fat Trust.

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Work of a distillation installation. Masl.-zhir.prom. 19 no.4:
23-25 '54. (MLRA 7:7)

1. Krasnodarskiy maslozhirkombinat.
(Distillation)



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Remote electromechanical indicator for automatic scales. Masl.-
zhir.prom.21 no.6:22-23 '55. (MIRA 8:12)

1. Krasnodarskiy maslozhirkombinat
(Scales (Weighing instruments)) (Electric apparatus and
appliances)

RYABININ, V.B., arzh.; PAPANOV, V.I., inzh.

Calculation of lever limiters for the hoisting capacity of 115
cranes. Bezop. truda v prom. 8 no.12:51-52 D '64. (MIRA 18:3)

1. Kostromskoy ekskavatornyy zavod.

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Data on the significance of the green toad (*Pseudoeurycea lewisi*) in the agriculture of the Armenian S.S.R. Izv. AN Arm.SSR. Biol. i sel'khoz. nauki 2 no.6:587-595 '49. (MIRA 9:8)

1. Institut fitopatologii i zoologii Akademii nauk Armyanskoy SSR.
(ARMENIA--TOADS)

PAPANYAN, S.B.

Data on ecology and the economic significance of the lake frog
(*Rana ridibunda* Pall.) in the Armenian S.S.R. Izv.AN Arm.SSR.Biol.1
sel'khoz.nauki. 5 no.11:39-48 '52. (MLRA 9:8)

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(Aras Valley--Frogs)

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1. Zoologicheskii institut AN Armyanskoy SSR.
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PAPANYAN, S.B.

Ecology of the Syrian spadefoot frog (*Pelobates syriacus*
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12 no. 12:51-62 D '59. (MIRA 13:6)

1. Zoologicheskii institut Akademii nauk Armyanskoy SSR.
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GAMBARYAN, P.P.; PAPANYAN, S.B.; MARTIROSYAN, B.A.

Materials on the ecology of the gerbil *Meriones meridianus* Dahl
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22 N-D '60. (MIRA 14:2)

(GOROVAN REGION--CERBILS)

PAPANYAN, S.B.

Ecology of the Transcaucasian frog in the Armenian SSR. Izv.
AN Arm. SSR. Biol.nauki 14 no.10237-50 0'61. (MIRA 16:7)

1. Zoologicheskii institut AN Armyanskoy SSR.
(ARMENIA--PROGS)

PAPANYAN, S.B.

Seasonal changes in the reaction of some species of voles (Microtinae) of Armenia to the action of the environmental temperature. Zool. zhur. 42 no.8:1245-1251 '63. (MIRA 16:9)

1. Zoological Institute, Academy of Sciences of the Armenian S.S.R., Erevan.

(Armenia--Field mice) (Temperature--Physiological effect)

CZECHOSLOVAKIA

JANOS, O.; PAPAUSEK, H.; Institute for the Care of Mother and Child, Prague. [Orig. version not given].

"Comparison of Appetitional and Aversive Conditioning in the Same Infants."

Prague, Activitas Nervosa Superior, Vol. 8, No 2, Jun 66, pp 203-204

Abstract: 130 children were studied by two methods: appetitional (the conditional head turning) and aversive (the conditional eye-lid response). In the appetitional method the criterion conditioning was reached in 13.5 days, in the palpebral method in 19 days. Changes in the functional quality manifested by the establishment of the conditional reflex depends on the age of the infant. 1 Figure, no references. Submitted at the 4th Conf. of Exper. and Clin. Study of Higher Nerv. Functions at Mar. Lazne, 12-15 Oct 65. Article is in English.

1/1

S/058/62/000/012/005/048
A160/A101

AUTHOR: Papapetrou, A.

TITLE: The problem of the existence of non-singular solutions of the field equations of the general relativistic theory. III

PERIODICAL: Referativnyy zhurnal, Fizika, no. 12, 1962, 38, abstract 12A348 ("Ann. Phys." (DDR), 1962, v. 9, no. 3 - 4, 97 - 106, German)

TEXT: This is a continuation of the foregoing works of the author and Tröder (Referativnyy zhurnal, Fizika, no. 2, 1960, 2621; 1961, 5A221). It is shown that Einstein's gravitation equations cannot have a regular solution everywhere, in case the condition $g_{44} > 0$ (g_{44} is the time component of the metric tensor) holds for the whole space. Such solutions are possible in strong gravitational fields, if a hypersurface exists on which $g_{44} = 0$. The problem of non-singular solutions is related to the periodical gravitational fields.

Ya. Pugachev

[Abstracter's note: Complete translation]

Card 1/1

PAPARA, Maria

Serotonin (5-hydroxytryptamine). Polski tygod. lek. 17 no.3:106-110 15
Ja '62.

1. Z Oddziału Chorob Wewnętrznych Szpitala PKP w Lublinie; ordynator:
dr Julian Branicki; konsultant naukowy: prof. dr Alfred Roman Tunzkieicz.
(SEROTONIN)

PAPARCHEV, Naiden, inzh.; STOIANOV, Todor; NATSKOV, Strakhil, inzh.

Measures for the reduction of wear and tear in the heating surface of the boiler aggregates at the Thermoelectric Plant Republika. Electroenergiia 13 no.1:18-20 Ja '62.

PAPAPETROU, A.

GERM.

530.12

2391. A theory of the gravitational field with a single field-function. A. PAPAPETROU, *Z. Phys.*, 139, No. 5, 518-32 (1954) in German.

A recently developed theory (*Mathematische Nachrichten*, 12, 129, 143 (1954)) based on the line element $ds^2 = e^{\chi} dt^2 - e^{\psi} (dx^2 + dy^2 + dz^2)$ is here modified by the assumption $\chi = \chi(\phi)$ and the special case $\chi = -\phi$ is considered in detail. The theory requires that the metric form be invariant under coordinate transformations, and permissible transformations are therefore restricted to rotations in 3-space and the linear transformations $x'_i = ax_i$, $x'_0 = x^{-1}_0 x_0$. The field equations reduce to the single equation $2\chi''_0 = \kappa(\mathcal{E}^0_0 - \mathcal{E}^i_i)$ and the dynamical equation $\mathcal{E}^0_0 = 0$ to $\mathcal{E}^0_0 = -1/2 \kappa(\mathcal{E}^i_i - \mathcal{E}^0_0)$. A consideration of the static spherically symmetric solution shows that the three observational tests would not distinguish between the present theory and Einstein's general theory.

R. A. NEWING

row

✓ Melster, H. J., und Papapetrou, A. Die Bewegungsgleichungen in der allgemeinen Relativitätstheorie und die Koordinatenbedingung. Bull. Acad. Polon. Sci. Cl. III. 3, 163-168 (1955).

I-F/W

px The second author's calculations of the equations of motion [Proc. Phys. Soc. Sect. A. 64, 302-310 (1951); MR 13, 695] are summarized and it is shown in addition that for spherically symmetrical particles equations of motion in the first approximation identical with those found by the EIH method [latest and most elegant derivation: L. Infeld, Acta Phys. Polon. 13, 187-204 (1954); MR 16, 531] may be derived.

P. A. E. Pirani (London).

Papapetrou, A.

GERM

V Papapetrou, A., und Urich, W. Das Pol-Dipol-Teilchen im Gravitationsfeld und elektromagnetischen Feld. Z. Naturf. 10a, 109-117 (1955).

1-F/W

M5 This paper starts with Einstein's equations, with a particle tensor $T_{\mu\nu}$ differing from zero along a "world tube". In the final calculations the "world tube" shrinks to a world line. This tensor together with the tensor for the electromagnetic field is the energy-momentum tensor. The conditions put on the momenta of this tensor define the pole-dipole structure of the particle. The spin tensor is defined by means of the tensor $T_{\mu\nu}$.

From the fact that the equations of motion are contained in the field equations, the covariant equations for the spin tensor and four-velocity of the particle are deduced. Making use of the canonical formalism, the possible forms of the spin tensor have been reduced to an expression with one arbitrary function only. The classical Poisson brackets of the theory are examined.

The whole throws light upon the problem of the pole-dipole particle in given gravitational and electromagnetic fields. Some doubt can be raised concerning the use of world tubes and the limiting processes, instead of functions.

J. Plebański (Warsaw).

PAPAPETROU, A.

4

POL . 2

530.17
 ✓ 7667. The equations of motion in the general theory
 of relativity and the coordinate condition. H. J.
 MÜLLER AND A. PAPAPETROU. *Bull. Acad. Polon. Sci.*
Cl. 3, 3, No. 3, 1955 In German.
 It is shown that no co-ordinate condition is neces-
 sary in the 1st approx.; the Newtonian equations
 follow on the assumptions that the gravitational field
 is weak and quasi-static and that the 1st approx. to
 the energy-momentum tensor has the same form as in
 special relativity.
 H. A. NEWING

C. J. M. J.

ΠΑΠΑΠΕΤΡΟΥ, Α.

Concerning Periodic Non-Singular Solutions in General Relativity Theory

Papapetrou, A. Über periodische nichtsinguläre Lösungen in der allgemeinen Relativitätstheorie. Ann. Physik (6) 20 (1957), 399-411.

Es wird angenommen, dass in dem verwendeten de Donder'schen Koordinatensystem die Größen $g_{\mu\nu}$ periodische Funktionen der Zeit sind, mit derselben Periode T . Die Frage die in dieser Arbeit beantwortet ist lautet: Gibt es in diesem Falle nichtsinguläre schwache Felder die die Einstein'schen Gleichungen erfüllen und im Unendlichen die Minkowski'schen Werte annehmen. Mit Hilfe des Näherungsverfahrens wird gezeigt dass es unmöglich ist alle diese Bedingungen zu erfüllen. L. Infeld (Warsaw).

88

87m

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1-FW

PAPAPETROV, A.

5675:

Papapetrou, A. Über periodische Gravitations- und elektromagnetische Felder in der allgemeinen Relativitätstheorie. Ann. Physik (7) 1 (1958), 186-197.

In a previous publication [Ann. Physik (6) 20 (1957), 399-411; MR 19, 1020] the author considered non-singular solutions $g^{\mu\nu}$ of the field equations $R_{\mu\nu}=0$, where these solutions satisfy the following requirements: (a) $g^{\mu\nu}$ is a periodic function of the time; (b) the metric tends to that of the flat Minkowski world as $r \rightarrow \infty$, where r is the distance of a point from a certain "central region" of the field, so that for sufficiently large distances $r \geq r_0$ the field is weak; while (c) only such fields were considered which are weak throughout the space. De Donder's condition $g^{\mu\nu}_{;\mu}=0$ was also stipulated, and it was shown that such solutions are trivial in the sense that

they may be obtained by means of suitable coordinate transformations applied to the metric tensor of the Minkowski world. In the present paper this result is generalised: (1) condition (c) is dropped, so that fields are considered which may be strong for $r < r_0$; (2) a combined gravitational and electromagnetic field is considered, whose field equations result from the Lagrangian $g^{\mu\nu}R_{\mu\nu} + \frac{1}{4}g^{\mu\alpha}g^{\nu\beta}F_{\mu\nu}F_{\alpha\beta}$. It is assumed that the gravitational field still satisfies conditions (a) and (b), while the electromagnetic field ϕ_α is to have the same period as $g^{\mu\nu}$. It is shown for both cases (1) and (2) that such fields must be time-independent in the region $r \geq r_0$ of the weak gravitational field, in the sense that the time-dependence of $g^{\mu\nu}$ and that of ϕ_α may be removed by means of coordinate and gauge transformations respectively.

H. Rund (Durban).

EAST GERMANY/Theoretical Physics - Relativity. Unified Field
Theory.

Abstr Jour : Ref Zhur - Fizika, No 6, June 1959, 12151

Author : Papapetrou, A.

Inst : Research Institute for Mathematics, German Academy
of Sciences, Berlin, East Germany.

Title : Solution of Time-Dependent Field Equations of General
Theory of Relativity.

Orig Pub : Ann. Physik, 1958, 2, No 3-4, 87-96.

Abstract : The results of preceding investigations (Referat Zhur
Fizika 1958, No 9, 19615; 1959, No 1, 139) generalized
under the assumption that the electromagnetic and gra-
vitational fields depend on the time in an arbitrary
manner. It is shown that such an assumption is not
compatible with the boundary conditions at infinity and

Card 1/2

KHRISTOV, Kh., inzh.; KOVACHEV, D., inzh.; PAPARCHEV, N., inzh.; POPOV, P.
inzh.

A new system for treating and burning the high-ash coal of the
Bobov Dol and Pernik Basins. Elektroenergiia 15 no.5:20-23
My '64

ISIDOROV, V.V.; PAPANIGOPULO, S.V.

Producing new materials and working out progressive technological solutions. Stroi-mat. 6 no.1:27-28 Ja '60.
(MIRA 13:5)

1. Zamestitel' direktora Vsesoyuznogo nauchno-issledovatel'skogo instituta novykh stroitel'nykh materialov Akademii stroitel'stva i arkhitektury SSSR (for Isidorov). 2. Uchenyy sekretar' Vsesoyuznogo nauchno-issledovatel'skogo instituta novykh stroitel'nykh materialov Akademii stroitel'stva i arkhitektury SSSR (for Papanigopulo).
(Building materials)

PAPARIGOPULO, S.V.

The Institute of New Building Materials. Izv. ASiA no.4:112 '61.
(MIRA 16:11)

1. Uchenyy sekretar' Instituta novykh stroitel'nykh materialov
Akademii stroitel'stva i arkhitektury SSSR.

PAPARIGOPULO, S.V., uchenyy sekretar'

New Building Materials Institute. Izv. ASiA no.1:123-125 '61.
(MIRA 14:7)

1. Institut novykh stroitel'nykh materialov Akademii stroitel'stva
i arkhitektury SSSR.
(Building materials)

PAPARIGOPULO, S.V.

Institute of New Building Materials. Izv.ASiA no.3:123-124 '62.
(MIRA 15:11)

1. Uchenyy sekretar' Instituta novykh stroitel'nykh materialov
Akademii stroitel'stva i arkhitektury SSSR.
(Building materials)

PAPARIGOPULO, S.V.; STRIZHEVSKIY, M.F.

Present state and perspectives of the growth of the production of polymer floor materials. Stroi. mat. 9 no.10:17-19
0 '63. (MIRA 16:11)

GJATA, Xh., prof.; PAPARISTO, F., docent; VEHBIU, U., Kand. i Shkencave
Mjekesore

A case of toxic encephalitis due to snake bite. Bul. univ. shtet.
Tirane [Mjek] 2:63-65 '63.

PAPARISTO, K.

10 years of the work of the Institute of Sciences; tenth anniversary of the Institute.

p.3 (Tin Per Shkencat Matyrore) No. 2, 1957. Tirane, Albania

SO: Monthly Index of East European Accessions (EEAI) LC, - Vol. 2, No. 1, Jan. 1958

~~ALBANIA~~

1. KOL' PAPARISTO, Prof.
2. USSR (600)
4. Albania
7. Development of science and culture in the People's Republic of Albania.
Priroda 42 no. 2. 1953.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

BULGARIA

BANKOVA, S.: PAPARIZOV, A.: KOLEV, Dim.

Sofia, Farmatsiya, No. 1, Jan-Feb 1963, pp 14-15

"The Increased Proteolytic Activity of Pancreas
Preparation."

(3)

TIAGUNENKO, IU.; PAPARKOVA, K.; KHRISTOVA, M.

Comparative studies on antibiotic sensitivity of cultures isolated from urine in 1956, 1957 and 1958. Suvrem med., Sofia no.11:88-98 '60.

1. Iz Katedrata po mikrobiologiya i virusologiya pri ISUL (Rukov. na katedrata prof. D.Khadzhidimova)
(ANTIBIOTICS pharmacol)
(URINE microbiol)

BALEV, P. (Troian); MUTAFCHIEV, D. (Burgas); PAPARO, A. (Sofia);
ANCHEV, St. (Teteven); SAVOV, T. (Burgas); KOLEV, Tsv. (s. Stambolovo,
Turnovsko); DANEV, M. (Ivailovgrad); RADEV, At. (Iambol);
PETKOV, V. (Sofia); SIMEONOV, As. (Gara Bov); NEDEV, R. (Varna);
KATIRANSKI, Iv. (s. Dragichevo, Pernishko); TRENCHIEV, TR. (St. Zagora);
KURCHEV, G. (Sofia)

Solutions to mathematics problems from Vol. 5, no.5, 1962.
Mat i fiz Bulg 6 no.2:61-63 Mr-Apr '63.

PAPAROV, Kh.

Geoelectric studies of thermal deposits. Spis Bulg geol druzh
25 no.3:300-304 '64.

1. Water Supply and Sewage Planning Service, Sofia. Submitted
April 13, 1964.

PAPAS, P.

Aeronautics group on the collective farm. Kryl.rod. 4 no.10:18 0 '53.
(MIRA 6:10)
(Aeronautics--Study and teaching)

PAPASCHIKOV, Mincho

Accelerating the speed mining. Ugol' Ukr. 4 no.8:33-34
Ag '60. (MIRA 13:9)

1. Brigadir prokhodchikov shakhty No.2 "Rodinskaya" tresta
Krasnoarmeyskugol'.
(Donets Basin--Coal mines and mining--Labor productivity)

PAPASENKO, F. T.

Lecturer, Stavropol' Agricultural Institute.

"Methods of differential diagnosis and treatment of post-natal diseases in cows."

SO: VETERINARIYA, 30, No. 2, P. 38, Feb. 1953. Trans. 121, by L. Lulich, Ural.

KOROL'KOV, I.I.; KRESTAN, E.Sh.; PAPASHNIKOV, L.M.; PARAMONOVA, G.D.;
EFROS, I.E.

Hydrolysis with co-ordinated reaction parameters and the return
of the tail hydrolyzate to charge. Gidroliz. i lesokhim.prom.
11 no.7:20-24 '58. (MIRA 11:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidroliznoy i
sul'fitno-spirovoy promyshlennosti (for all except Efros). 2. Sazhzhskiy
gidroliznyy zavod (for Efros)
(Hydrolysis)

KOROL'KOV, I.I.; TYAGUNOVA, Z.A.; IVLIYEVA, Ye.A.; RYABOVICH, V.I.;
PAPASHNIKOV, L.M.

Kinetic method of evaluating systems of percolation hydrolysis of
sawdust. Gidroliz. i lesokhim. prom. 11 no.6:3-6 '58.

(MIRA 11:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidroliznoy i
sul'fitno-spirovoy promyshlennosti.
(Hydrolysis)

PAPASKUA, G.P.

**Comparative data on the effectiveness of terramycin, biomycin, and
synthomycin therapy in bacillary dysentery. Antibiotiki 1 no.6:
52-54 N-D '56. (MLRA 10:2)**

**1. Sukhmuskaya infektsionnaya bol'nitsa (glavnyy vrach M.A.Tkebuchava,
zaveduyushchiye otdeleniyami I.S.Kurashvili i A.S.Avetisova)**

**(DYSENTERY, BACILLARY, therapy,
chloramphenicol, chlortetracycline & oxytetracycline,
comparison (Rus))**

**(CHLORAMPHENICOL, therapeutic use,
dysentery, bacillary, comparison with chlortetracycline
& oxytetracycline (Rus))**

**(CHLORTETRACYCLINE, therapeutic use,
dysentery, bacillary, comparison with chloramphenicol &
oxytetracycline (Rus))**

**(OXYTETRACYCLINE, therapeutic use,
dysentery, bacillary, comparison with chloramphenicol
& chlortetracycline (Rus))**

PAPASKUA, G.P.

USSR/Pharmacology. Pharmacognosy. Toxicology -
Chemotherapeutic Preparations.

T-9

Abs Jour : Referat Zhur - Biologiya, No 16, 1957, 71880

Author : Papaskua, G.P.

Inst :

Title : The Comparative Data on the Effectiveness of Treatment of
Patients with Bacterial Dysentery with Terramycin,
Biomycin and Syntomycin.

Orig Pub : Antibiotiki, 1956, 1, No 6, 52-54

Abstract : Into mice, infected by the strain B. Dysentaria Flexneri
No 527 C, terramycin (I) was injected intramuscularly in
a dose of 0.16 mg and biomycin(II) in 0.08 mg dose. A
good therapeutic result was obtained. 211 patients with
bacterial dysentery were treated with I and II and with
syntomycin (III) (controls). Out of 70 patients, recei-
ving I, dysentery bacteria were found in 24, in treat-
ment with II - in 30 out of 69, and in treatment with

Card 1/2

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PAPASKUA, G. P.

✓ Comparative data as to the treatment efficiency of bacterial dysentery with Terramycin, biomycin, and syntomycin. G. P. Papaskua (Clinic Infectious Diseases, Sukhumi). *Annals* 1, No. 8, 62-4 (1956).—Comparative data regarding the effectiveness in the treatment of patients suffering from acute and chronic dysentery showed that those receiving biomycin (I) and syntomycin (II) (Aureomycin) fared as well as those receiving Terramycin (III). The therapeutic effectiveness of III was characterized by the more rapid normalization of stools, disappearance of mucus and blood from excreta, cessation of cramps, normalization of temp., and disappearance of dysenteric bacteria from stools, than either I or II. The effectiveness of I is less than II, but significantly greater than III. III was administered intramuscularly with procaine, while I was given with procaine and ecdiolin, and no side effects were observed in either case.

D. M. Chern.

PAPASKUA, G. P. Cand Med Sci — (diss) "Clinico-epidemiological Characteristics and Effectiveness of the Treatment of Dysentery with Biomycin Containing Ecmolin and Terramycin Upon Intramuscular Administration," Sukhumi, 1960, 13 pp, 300 copies (Central Institute for Advanced Training of Physicians) (KL, 49/60, 129)

GOGOKHIYA, Sh.D.; PAPASKUA, G.P., red.; KHAKHMIGERI, M.D., tekhn. red.

[Health resorts of Abkhazia] Kurorty Abkhazii. Sukhumi, Abgosizdat,
1961. 156 p. (MIRA 14.11)

(ABKHAZIA---HEALTH RESORTS, WATERING PLACES, ETC.)

PAPASOTIR, M.

Current problems of the industry of sugar products. P 28

REVISTA INDUSTRIEI ALIMENTARE. PRODUSE VEGETALE. (Ministerul Industriei
Bunurilor de Consum si Sindicatul Muncitorilor din Industria Bunurilor de
Consum) Bucuresti, Rumania. No. 12, 1958

Monthly List of East European Accessions (EEAI) LC. Vol. 8, no. 9, Sept. 1959.

Uncl.

PAPASTAFIDAS, Vasilis

We feel the World Federation of Trade Unions' support. Sov.profsoiuzy
17 no.12:35-36 Je '61. (MIRA 14:6)

1. Predsedatel' soyuza konduktorov avtobusov Pireya, chlen TSentral'-
nogo komiteta demokraticeskogo profsoyuznogo dvizheniya Gretsii.
(Greece—Labor and laboring classes)
(Greece—Motorbus lines—Employees)
(Trade unions)

PAPASTEFAN, A., Cand Tech Sci (diss) -- "Regulating voltages in ungrounded current leads". Leningrad, 1960. 16 pp (Leningrad Order of Lenin Inst of Railroad Transport Engineers im Acad V. N. Obratzsov), 120 copies (RI, No 11, 1960, 122)

PAPATSENKO, Kh.I., inzh. (g. Ukhta)

Planning and constructing cablelike suspended gas line river
crossings. Stroi. truboprov. 5 no.4:10-12 Ap '60. (MIRA 13:9)
(Gas, Natural--Pipelines)

PAPATSENKO, Kh. I.

Hothouses with direct burning of gas. Gaz.prom. 5 no.8:33-35 Ag
'60. (MIRA 13:10)

(Gas--Heating and cooking) (Greenhouses)

PAPATSENKO, Kh.I., inzh.

Principles for the design of suspended pipelines. Stroi.
truboprov. 6 no.10:14-15 0 '61. (MIRA 14:10)

1. Ikhtinskaya proyektno-izyskatel'skaya kontora, Ukhta, Komi ASSR.
(Pipelines) (Elastic rods and wires)

PAPATSENKO, Kh.I.

Gas heating of hothouses using artificial feeding media. Gaz. prom.
9 no.2:27-31 '64. (NIPA 17:12)

FAPATSENKO, Khistofo Ivanovich; BOGOMOLOV, A.I., red.

[Use of gas in greenhouse and hotbed gardening] Primenenie
gaza v teplichno-parnikovom khoziaistve. Moskva, Izd-vo
M-va kommun.khoz.RSFSR, 1963. 44 p. (MIRA 17:5)

PAPATSENKO, Khristofor Ivanovich; SNITKO, I.K., red.; KLYUCHNIKOVA,
L.P., ved. red.; YAKOVLEVA, Z.I., tekhn. red.

[Design, construction and operation of self-supporting,
suspended pipelines]Proektirovanie, stroitel'stvo i eks-
pluatatsiia samonesushchikh provisaiushchikh truboprovo-
dov. Moskva, Gostoptekhizdat, 1963. 110 p.

(MIRA 16:4)

(Pipelines)

PAPAJA, A.

AGRICULTURE

Periodicals: REVISTA PADURILOR. Vol. 73, no. 11, Nov. 1958

PAPAJA, A. Some suggestions relative to the drawing up of taxation acts. p.608

Monthly List of East European Accessions (EEAL LC, Vol. 8, No. 2,
February 1959, Unclars.

PAPAVA, A.A.:

PAPAVA, A.A.: "On the problem of the connections between symmetrical points in the dermal analysor in generalizing a conditioned reflex". Leningrad, 1955. Inst of Experimental Medicine, Acad Med Sci USSR. Physiology Department imeni Academician I.P. Pavlov. Laboratory of the Physiology and Pathology of Higher Nervous Activity. (Dissertations for the Degree of Candidate of Medical Sciences.)

So. Knizhnaya letopis'. No. 49, 3 December 1955. Moscow.

PAPAVA, A. F.

22421. PAPAVA, A. F. K Rasprostraneniyu I Obrazu Zhizni Letuchikh Myskey
V Gruzii. Byulleten' Mosk. O-ve Ispytateley Prirody, Otd. Biol., 1949, VYP.
3, S. 39-41.-Bibliogr: 5 Nazv.

SO: Letopis' No. 30, 1949

PAPAVA, A. F.

22421. Papava, A. F. K RASPROSTRANENIYU I OBRAZU zhIZNI LETUCHIKH MYSHEY V GRUZII. BYULLETER' MOSK. O-VA ISPYTATELEY PRIRODY, OTD. BIOL., 1949, VYP. 3, S. 39-41.-BIBLIOGR: 5 NAZV.

SO: LETOPIS' No. 30, 1949

PAPAVA, D. Yu.

VAKHANIYA, Ye.K.; PAPAVA, D.Yu.

Lower Miocene deposits of the Lechkhumsкая depression. Soob.
AN Gruz. SSR 18 no.1:55-58 Ja '57. (MLRA 10:5)

1. Neftepromyslovoye upravleniye "Gruzneft'," Tbilisi.
Predstavleno akademikom I.V. Kacharava.
(Lechkhumsкая depression--Geography, Stratigraphic)

ACCESSION NR: AP4010045

S/0062/64/000/001/0149/0155

AUTHOR: Papava, G. Sh.; Vinogradova, S. V.; Korshak, V. V.;
Tsiskarishvili, P. D.

TITLE: Polyesters with a hetero backbone Report No. 56. Mixed
block-polyarylates based on polypropylene oxides, diatomic phenols
and the acid chlorides of aromatic carboxylic acids

SOURCE: AN SSSR. Izvestiya. Ser. khim., no. 1, 1964, 149-155

TOPIC TAGS: heterochain polyesters, mixed block polyarylates, poly-
propylene oxide, diatomic phenols, dicarboxylic acid chlorides,
aromatic acid chlorides, polymer synthesis, polymer backbone packing,
equilibrium polycondensation, polymer solubility, polymer softening
point

ABSTRACT: In continuation of earlier work, this polycondensation in-
volved varying percentages of polypropylene oxide with a molecular
weight of 420 (#1) and 880 (#2), liquids easily soluble in organic
solvents, and terephthalic and isophthalic acid chlorides, diene,

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ACCESSION NR: AP4010045

hydroquinone, resorcin or phenolphthalein. Results are tabulated and graphed, reporting on yields, melting or softening points, solubility and consistency of the end products. The probable reaction formulas are presented; these were verified by determining the amount of HCl liberated during the reaction. The starter polymer was found to react more rapidly than diene with terephthaloyl chloride during the first hour. Such starter polymers would thus be considered sufficiently active for use as monomers in polymer synthesis. Block formation was verified by IR spectroscopy, structure by X-ray. All factors influenced properties, e.g. end products (with diene and terephthaloyl chloride) containing more than 50 weight % of #1 or 70% of #2 were semi-liquid or waxy substances easily soluble in most organic solvents. The m.p. of end products containing up to 40-50% starter polymers was inversely related to this content. Those containing the low-molecular starter polymer had lower m.p. and better solubility than the high-molecular. Terephthalic acid gave higher softening temperatures than isophthalic acid. The possible reasons for such influence on physical properties was discussed, such as solubility,

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ACCESSION NR: AP4010045

elasticity, and dyability, while retaining a high softening point.
"In conclusion, the authors wish to thank L. B. Sokolov for placing
the polypropylene oxide at their disposal." Orig. art. has: 5 fig-
ures, 3 tables, and 3 formulas.

ASSOCIATION: Institut elementoorganicheskikh soedineniu Akademii
nauk SSSR (Institute of Organcelemental Compounds, Academy of Sciences, SSSR);
Institut khimii im Melikishvili Akademii nauk GruzSSR (Melikishvili Institute,
Academy of Sciences, GruzSSR)

SUBMITTED: 17Jul63

DATE ACQ: 14Feb64

ENCL: 00

SUB CODE: CH

NO REF SOV: 001

OTHER: 000

Cord 3/3

KORSHAK, V.V.; VINOGRADOVA, S.V.; PAPAVA, G.Sh.

Heterochain polyesters. Report No.53: Mixed block polyarylates
based on polyethylene oxide, diene, and terephthalic acid chloride.
Izv.AN SSSR. Ser.khim. no.1:132-141 Je '64. (MIRA 17:4)

1. Institut elementoorganicheskikh soyedineniy AN SSSR i Institut
khimii im. Melikishvili AN GruzESR.

L 16664-65 EWT(m)/EPF(c)/EWP(j)/T Pc-L/Pr-L RM

ACCESSION NR: AP4042878

S/0062/64/000/007/1296/1302

AUTHOR: Vinogradova, S. V.; Korshak, V. V.; Papava, G. Sh. B

TITLE: Heterochain polyesters. Communication 56: Mixed block polyarylates based on polyethylene oxide, dihydric phenols and aromatic dicarboxylic acid chloranhydrides

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 7, 1964, 1296-1302

TOPIC TAGS: heterochain polyester, polyarylate, polyethylene oxide, dihydric phenol, aromatic dicarboxylic chloranhydride, diethylene glycol, triethylene glycol

ABSTRACT: Mixed block polyarylates based on polyethylene oxide (PEO) of different molecular weights (or di- or triethylene glycol), diene, hydroquinone, resorcinol or phenolphthalein, and the chloranhydrides of isophthalic or terephthalic acids were synthesized by equilibrium polycondensation (under nitrogen in high boiling solvent--ditolylmethane, heating from 100-220C in 3 hours, holding at 220C for 7 hours, precipitating product polymer with ethyl ether, filtering, wash-

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L 16664-65

ACCESSION NR: AP4042878

ing and drying at about 80C). Elemental analysis and IR spectra showed reaction had occurred. The effect of structure and ratio of the initial components on the physical properties of the polyarylate were studied. The hydroquinone-terephthalate polyarylate G-2 does not melt at 500C and is very insoluble in organic solvents. Addition of 0.1M PEO increases solubility slightly, but product still does not melt at 500C; 0.2M PEO increases solubility significantly and decreases melting point; and with >0.2M PEO the product is very soluble and has a low melting point. Analogous situations obtain on the addition of PEO to resorcinol-terephthalate reaction mixtures. The aliphatic blocks the packing (lowers the density) of the polyarylate chain. The polyarylate properties also depend on the structure of the dihydric phenol, the softening temperature decreasing in the following order: hydroquinone > diene > resorcinol > phenolphthalein. The structure of the dicarboxylic acid affects the properties: a terephthalate-containing polyarylate melts at 318C and is soluble with difficulty; the corresponding isophthalate melts at 248C and is readily soluble. The PEO increases the solubility, elasticity and colorability of the polymer while sustaining a fairly high softening temperature (even with 30-45% of high molecular PEO). The higher the molecu-

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L 16664-65

ACCESSION NR: AP4042878

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lar weight, the larger the amount of PEO that may be incorporated to improve solubility without adversely affecting temperature: with 29 wt. % of a high molecular PEO in G-2, the product still does not melt at 500C; with the same weight of di- or triethylene glycol the melting temperature is reduced to about 180 or 200C, respectively. Orig. art. has: 3 figures and 3 tables.

ASSOCIATION: Institut elementoorganicheskikh soedineniy Akademii nauk SSSR (Institute of Organometallic Compounds, Academy of Sciences SSSR); Institut khimii im. Melikishvili Akademii nauk GruzSSR (Institute of Chemistry, Academy of Sciences GruzSSR)

SUBMITTED: 12Dec62

ENCL: 00

SUB CODE: GC, 00

NO REF SOV: 001

OTHER: 000

Card 3/3

KORSHAK, V.V.; VINOGRADOVA, S.V.; MALOVA, A.Sh.; TOLSKAYA-BELIK, I.M.

Study of mixed block polyarylates. Dokl. AN SSSR 150 no. 2: 368-371 May '64. (USSR 1967)

1. Institut elementorganicheskikh soedineniy AN SSSR 1
2. Khimii imeni Molokhtshvili AN Gruzinskoy SSR. 2.
Chlen-korrespondent AN SSSR (Ac Korshak).

L 27273-65 EPF(c)/EPR/EWP(j)/EWT(m)/T Pc-4/Pr-4/PS-4 RPL RM/WW
ACCESSION NR: AP4010043 S/0062/64/000/001/0132/0141

AUTHORS: Korshak, V. V.; Vinogradova, S. V.; Papava, G. Sh.

TITLE: Heterochain polyesters. 53th Comm. Mixed block polyacrylates
based on polyethylene oxide, diene and chloranhydride of
terephthalic acid

SOURCE: AN SSSR. Izvestiya. Ser. khim., no. 1, 1964, 132-141

TOPIC TAGS: polyester, heterogeneous polyester, mixed block poly-
acrylate, terephthalic acid, terephthalic acid derivative, infrared
absorption spectrum, ditoylmethane, polycondensation

ABSTRACT: The polycondensation of polyethylene oxide, diene and
the chloranhydride of terephthalic acid is investigated. Polyethy-
lene oxide has a greater reactivity with respect to the chloranhy-
dride of terephthalic acid than diene. By varying the polyconden-
sation conditions, mixed polyester containing homopolyester blocks
of different length can be obtained. The synthesis of mixed poly-
esters of different composition based on polyethylene oxide of dif-

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L 27273-65

ACCESSION NR: AP4010043

2

ferent molecular weight, diene and the chloranhydride of terephthalic acid was carried out and their properties were investigated. The characteristics of polyethylene oxide are tabulated. Orig. art. has: 3 formulas, 7 tables, 3 figures.

ASSOCIATION: Institut elementoorganicheskikh soedineniy Akademii nauk SSSR (Institute of Organometallic Compounds, Academy of Sciences, SSSR); Institut khimii im. Melikishvili Akademii nauk Gruz SSR (Institute of Chemistry, Academy of Sciences, Gruz SSR)

SUBMITTED: 20Aug62

ENCL: 00

SUB CODE: 00, Gc

NO REF SOV: 000

OTHER: 004

Card

2/2

L 12433-65 EWT(m)/EPF(c)/T/EWP(j) Pc-L/Pr-L AEDC(a)/SSD/AFWL RM

ACCESSION NR: AP4036723

S/0020/64/156/002/0368/0371 B

AUTHORS: Korshak, V.V. (Corresponding member AN SSSR); Vinogradova, S.V.;
Papeva, G.Sh.; Tsiskarishvili, P.D.

TITLE: Investigations in the area of mixed block-polyarylates 1

SOURCE: AN SSSR. Doklady*, v. 156, no. 2, 1964, 368-371

TOPIC TAGS: mixed block polyarylate, synthesis, polycondensation, property modification, elasticity, solubility, viscosity, pentone, silicon containing oligomer, polypropyleneglycol, polyethyleneglycol, pentone polyarylate, silicon oligomer polyarylate, polypropyleneglycol polyarylate, polyethylene glycol polyarylate, softening point, light stability, crystallinity, block copolymerization

ABSTRACT: Mixed block-polyarylates containing different structures in the block were synthesized to determine the possibility of modifying the properties (increasing strength, etc.)

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L 12433-65

ACCESSION NR: AP4036723

phenol molecule radical and D = dicarboxylic acid chloranhydride molecule radical, result in the synthesis of the mixed block polyarylates:

1. $nHO-A-OH + nClOC-D-COCl \rightarrow 2nHCl + \text{---} [OAOCCDCO]_n \text{---}$
2. $nHO-B-OH + nClOC-D-COCl \rightarrow 2nHCl + \text{---} [OBOCCDCO]_n \text{---}$
3. $nHO-A-OH + 2nClOC-D-COCl + nHO-B-OH \rightarrow 4nHCl + \text{---} [OAOCCDCOOBOCCDCO]_n \text{---}$

Low molecular bifunctional polymers with terminal hydroxyl groups were used for the block component: pentone 7 (PN): $H_2C(OCH_2Cl)_2CH_2$ 7
OH: a silicon-containing oligomer 7 (SI): $H_2C(OCH_2Cl)_2CH_2$ 7

STIONS. THE PROPERTIES OF THE COPOLYMER CHANGE WITH THE AMOUNT OF THE
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L 12133-65

ACCESSION NR: AP4036723

block component in the reaction mixture, increasing the block component lowers the product softening temperature and frequently impairs its solubility. A block-polyarylate containing a high molecular weight block component melts at a higher temperature than the copolymer containing a low molecular weight block. The copolymer formed can have a higher softening temperature than the corresponding polymer block, e.g., PE, melting at 178-1800, copolymerizes with terephthalic acid and diene to form a product containing 54 wt.% PE, melting at 2660. The properties of the mixed block polyarylates. ②